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## Massachusetts Electric Company Reliability - Outage Frequency (1)

lalendar Yea	(a) Customer Hrs Interrupted	(b) # Customers Interrupted	(c) Avg # of Customers *	Frequency formula: Average	(b)	/	(c)
1996	1,694,857	1,474,258	1,161,288	1.270			
1997	1,633,701	1,287,406	1,175,182	1.095			
1998	1,489,774	1,291,802	1,191,012	1.085			
1999	1,674,243	1,468,695	1,192,597	1.232			
2000	1,759,109	1,384,793	1,203,656	1.150			
			Average	1.166			
			STD	0.082			
			Max level	1.330			
			25% level	1.248			
			Average	1.166			
			25% level	1.084			
			Max level	1.002			

Note: Data source - National Grid USA IDS system. Reliability indices exclude 1) All transmission related outages where the Company does not own or operate the equipment, 2) any interruption at the secondary, transfomer or service level, or 3) exclusions allowed under the new storm guidelines (any event that causes 15% of customer served in any operating area to be interrupted during the

Average # of Customers

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#### Massachusetts Electric Company

Reliability - Outage Duration (1)

lalendar Yea;	(a) Customer Hrs Interrupted	(b) # Customers Interrupted	(c) Avg # of Customers *		(mins): (a) / (c)	* 60
1996	1,694,857	1,474,258	1,161,288	87.568		
1997	1,633,701	1,287,406	1,175,182	83.410		
1998	1,489,774	1,291,802	1,191,012	75.051		
1999	1,674,243	1,468,695	1,192,597	84.232		
2000	1,759,109	1,384,793	1,203,656	87.688		
			Average	83.59		
			STD	5.15		
			Max level	93.88		
			25% level	88.74		
			Average	83.59		
			25% level	78.44		
			Max level	73.30		

indices exclude 1) All transmission related outages where the Company does not own or operate the equipment, 2) any interruption at the secondary, transfomer or service level, or 3) exclusions allowed under the new storm guidelines (any event that causes 15% of customer served in any operating area to be interrupted during the

<sup>(1)</sup> Duration per Customer Served (minutes) = Customer Hours Interrupted / Average Customers X 60 minutes.

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### Massachusetts Electric Company Distribution Line Losses (1)

	(a)	(b)	Losses:	
	MWh	MWh		(b))/(a)
<u>Calendar Yes</u>	<u>Deliveries</u>	Sales		
1007	10 005 000			
1997	19,825,333	19,053,724		
1998	20,149,995	19,366,785	3.89%	
1999	21,094,469	20,185,282	4.31%	
2000	20,572,703	19,531,033	5.06%	
		Average	4.29%	
	;	STD	0.55%	
	1	Max level	5.39%	
	:	25% level	4.84%	
	i	Average	4.29%	
	:	25% level	3.74%	
	1	Max level	3.19%	

(includes: Massachusetts Electric-1997 to 2000, Eastern Edison-1997 to 2000, and Nantucket-1998 to 2000

<sup>(1)</sup> Distribution Line Losses are defined as the difference between the total energy delivered into the system and the total energy sold to retail customers.

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#### Massachusetts Electric Company Customer Telephone Service - Northboro Call Center

Year	Calls Ans	<20 sec	t<20 sec (1)
1997	1,586,454	1,084,896	68.4%
1998	1,479,346	1,071,754	72.4%
1999	1,488,413	1,115,436	74.9%
2000	1,729,859	1,356,490	78.4%
Average	8		73.5%
STD			4.2%
Max le	vel		65.1%
25% le	vel		69.3%
Average	9		73.5%
25% le	vel		77.7%
Max le	vel		81.9%

(1) The Percent of Calls Answered Within 20 Seconds is calculated by dividing the number of calls answered by a customer service representative within 20 seconds by the total number of calls answered by a customer service representative during the year. A call is considered answered when it reaches a customer service representative. The time to answer is measured once the customer selects the option to speak with a customer service representative and thus leaves the recordings in the voice response unit

1997 was the first full year of operation at the Northboro Customer Service Center

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# Massachusetts Electric Company On-Cycle Meter Readings

Combined		
<u>Meters</u>	<b>Estimated</b>	% Read (1)
14,384,989	711,827	95.05%
14,346,387	1,700,521	88.15%
14,473,119	1,531,557	89.42%
14,703,857	1,098,071	92.53%
14,802,838	1,338,426	90.96%
14,224,275	823,826	94.21%
		91.7%
		2.7%
<b>1</b>		86.3%
21		89.0%
		91.7%
e1		94.4%
:1		97.1%
	Meters 14,384,989 14,346,387 14,473,119 14,703,857 14,802,838 14,224,275	Meters Estimated 14,384,989 711,827 14,346,387 1,700,521 14,473,119 1,531,557 14,703,857 1,098,071 14,802,838 1,338,426 14,224,275 823,826

(1 Percent Read = 1 - Meters Estimated Total Meters)

(includes MECo 1995 to 2000 Eastern Ed 1995 to 2000 and Nantucket 1997 to 2000)

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# Massachusetts Electric Company Department of Telecommunications and Energy Cases

Year	Combined Avg Combined # of Resid Cases (1) ustomers (2er	Cases 1,000 (3)
1992 1993 1994 1995 1996 1997 1998 1999 2000	1,099 974,062 1,243 983,064 1,016 993,757 1,011 1,004,527 899 1,013,288 1,001 1,035,264 796 1,047,159 846 1,058,921 819 1,058,766	1.13 MECo & Eastern Ed 1.26 MECo & Eastern Ed 1.02 MECo & Eastern Ed 1.01 MECo & Eastern Ed 0.89 MECo & Eastern Ed 0.97 MECo, Eastern Ed and Nantucket 0.76 MECo, Eastern Ed and Nantucket 0.80 MECo, Eastern Ed and Nantucket 0.77 MECo, Eastern Ed and Nantucket
Average STD Max level 25% level Average 25% level Max level		0.96 0.17 1.30 1.13 0.96 0.79

<sup>1)</sup> Source of case data: Mass DTE Con Div (Electric Company Complaint Rates)

<sup>2)</sup> See page 10 of 10.

<sup>3)</sup> Cases per 1,000 Customers = Number of Cases Number of Customers x 1,000

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#### Massachusetts Electric Company lling Adjustments (Between the Company and a Residential Customer)

	E	Billing		Avg # of	Rev	Adi ner	
		ustments	Index 6				Only available Billing and Customer
Year	-		titues (2)	es Customer	.,00	v kesiden	Only available Billing and Customer
ACCE	<u> </u>	DIE III	actor 127	er Monch (3.	ust	omers (4)	numbers used
1992	\$	35,801	0.947	974,062	\$	34.81	MECo and Eastern Ed Only
1993	\$	32,137	0.873	983,064	Ś	28.53	MECo and Eastern Ed Only
1994	\$	38,685	0.903	993,757	Ś		MECo and Eastern Ed Only
1995	\$	29,710	0.855	-	,		MECo and Eastern Ed Only
1996	Ś	17,770	0.861	1,013,288			MECo and Eastern Ed Only
1997	Ś	22,900	0.876	1,035,264		19.37	• • • • • • • • • • • • • • • • • • •
1998	\$	-	0.969		•		MECo, Nant, and EEdison
		•			-	31.57	MECo, Nant, and EEdison
1999	\$	15,854	1.011	1,058,921	\$	15.14	MECo, Nant, and EEdison
2000	\$	39,496	1.000	1,058,766	\$	37.30	MECo, Nant (EEd combined into MECo)
Average					\$	26.92	
STD					\$	8.66	
Max leve	1				\$	44.24	
25% leve	1				Ś	35.58	
Average					Š	26.92	
25% leve	. 7				4		
						18.26	
Max leve	:1					9.60	

<sup>(1)</sup> Source of billing adjustment data: Mass DTE Consumer Division (Consumer Division Adjustments Worksheet)

<sup>(2)</sup> See Index for Billing Adjustment worksheet (attached)

<sup>(3)</sup> See page 10 of 10.

<sup>(4)</sup> Rev. adj. per 1,000 Customers = Billing Adjustments times Index Factor divided by Avg # of Customers x 1,000

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## Massachusetts Electric Company Index for Billing Adjustment Worksheet:

(1) Adjustment Factor Calculation Residential Customer - MECo

rea	residential customer - MECO					
Jul	y Typica	1 B	ill (500	kWh per month)		
Cua	rent Yr	His	storical	Index		
2	2000 (a)	3	(ear (b)	(a)/(b)		
\$	48.55	\$	51.26	0.947		
\$	48.55	\$	55.63	0.873		
\$	48.55	\$	53.74	0.903		
\$	48.55	\$	56.76	0.855		
\$	48.55	\$	56.37	0.861		
\$	48.55	\$	55.44	0.876		
\$	48.55	\$	50.10	0.969		
\$	48.55	\$	48.01	1.011		
	48.55	\$	48.55	1.000		
		*		000		

(b) calculation to determine the historical rates (use blending EE and MECo)

	(1)	(2)	(3)	(4)	
	MECO	MECo		Eastern Ed	Avg Hist Rate
	_	Historical	Avg # Cust	Historical	Weighted
	per month	Year	per month	Year	(1*2+3*4)/(1+3)
1992	819,782	50.47	154 200	FC 48	
			,	55.47	51.26
1993	826,723	54.86	156,341	59.73	55.63
1994	834,581	53.22	159,176	56.45	53.74
1995	842,888	56.90	161,639	56.03	56.76
1996	850,137	56.39	163,151	56.29	56.37
1997	854,140	55.44	172,458	55.44	55.44
1998	862,830	49.80	175,452	51.56	50.10
1999	872,636	47.50	177,164	50.51	48.01
2000	989,951	48.55	59,463	48.55	48.55

torical rates data - from EE typical bill publication July 1 Residential customers 500 kWh

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## Massachusetts Electric Company Lost Work Time Accidents Rate

		(b)	(c)	Frequency
		# of MECo	Hours	formula: (a) *200,000
<u>Calendar Year</u>	LTAs	Employees	Worked	TA rate (1)
1995	28	2,046	4,100,741	1.37
1996	36	2,023	4,051,779	1.78
1997	35	1,841	3,423,644	2.04
1998	25	1,730	3,534,852	1.41
1999	25	1,626	3,230,384	1.55
2000	25	1,683	3,254,807	1.54
		А	verage	1.61
		S	TD	0.25
		М	ax level	2.11
		2	5% level	1.86
		A	verage	1.61
		2	5% level	1.36
		М	ax level	1.11

storical information includes MECo and Eastern Edison only (future periods to include Nantucket Electric

<sup>(1)</sup> Lost Time Accident Rate per 200,000 hours worked = Number of Lost Time Accidents x 200,000/Actual Hours Worked. For 1995 and 1996, actual hours worked are estimated based on 2,004 hours per employee.

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#### Massachusetts Electric Company Average Number of Residential Customers

#### Source FERC Form 1 - page 301 - line 2 Residential Customers

(Average number of customers per month for the current year)

	MECO	<u>Nantucket</u>	astern Ed (1	Total
1992	819,782	n/a	154,280	974,062
1993	826,723	n/a	156,341	983,064
1994	834,581	n/a	159,176	993,757
1995	842,888	n/a	161,639	1,004,527
1996	850,137	n/a	163,151	1,013,288
1997	854,140	8,666		1,035,264
1998	862,830	8,877	175,452	1,047,159
1999	872,636	9,121	177,164	1,058,921
2000	989,951	9,352		1,058,766

Eastern Ed customers filed Form 1 for the short period in 2000 (Jan 1 to the merger date with MECo)